(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 10 March 2005 (10.03.2005)

PCT

(10) International Publication Number WO 2005/021922 A3

(51) International Patent Classification⁷: 37/00, 55/00

F16L 35/00,

(21) International Application Number:

PCT/US2004/028438

(22) International Filing Date:

1 September 2004 (01.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/499,528

2 September 2003 (02.09.2003) US

(71) Applicant (for all designated States except US): EN-VENTURE GLOBAL TECHNOLOGY, LLC [US/US]; 16200 A Park Row, Houston, TX 77084 (US).

(72) Inventors; and

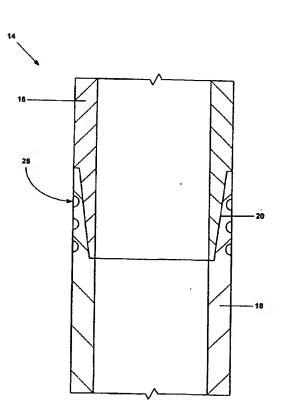
(75) Inventors/Applicants (for US only): COSTA, Scott

[US/US]; 2011 Willow Point, Kingwood, TX 77330 (US). MENCHACA, Jose [US/US]; 9800 Pagewood Lane, Number 210, Houston, TX 77042 (US).

- (74) Agent: HAYNES AND BOONE LLP; 901 Main Street, Suite 3100, Haynes and Boone, LLP, Dallas, Texas 75202 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: THREADED CONNECTION FOR EXPANDABLE TUBULARS



(57) Abstract: A threaded connection (20) for expandable tubulars (16), (18) with at least one stress concentrator (26).

WO 2005/021922 A3 |||||||||||||

WO 2005/021922 A3

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, Pl, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 19 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

		PC1/USU4/28438	
A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : P16L 35/00 37/00 55/00			
US CL : 285/382, 333, 390, 114, 29/507,522.1,523			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 285/382, 333, 390, 114, 29/507,522.1,523			
0.0.1.0			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *		Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.	
X	WIPO 200201102 A1 (Coulon et al.) 03 January 2002 (03-01-02), see expanded threaded 1,3-7,14-20,22-25,27-		
	members 11,12 and groove 21 or 14 which will inherently act as a stress concentrator as 42		
Y	applies in the present invention except in claims 18 and 37-39 where no stress concentrator		
	is claimed. 8-12,21,26		
Y	US 6,390,720 A (LeBegue et al.) 21 May 2002 (21-05-02), see column 2, lines 55-65 and 8-12,21 and 26		
	stress relief grooves 36 shown internally in fig. 2 and noted to be either single, plural or		
	helical.		
	i		
х	US 5.667,252 A (Schafer et al) 16 September 1997 (16-09-97), see fig. 3 which shows tube 42		
	200 expanded to tube 202.		
			A Y.
			·
		1	
		i	
		į	
			• [
		İ	
Purther	documents are listed in the continuation of Box C. See patent i	family annex.	
Special categories of cited documents: "T" later document published after the international filing date or priority.			
	date and not i	n conflict with the applica	tion but cited to understand
		or theory underlying the l	evention
	lar relevance "X" document of p	particular relevance; the o	laimed invention carnot be
	plication or patent published on or after the international filing considered no	erci or cannot be consider	
date	step when the	document is taken alone	
	document which may throw doubts on priority chim(s) or which is cited to "Y" document of particular relevance; the claimed invention cannot be		
establish (specifical)	he publication date of another citation or other special reason (as considered to	involve an inventive step	when the document is
speciality)		to a person skilled in the	documents, such combination art
"O" document	comment referring to an oral disclosure, use, exhibition or other means		
A document member of the same patent family *P* document published prior to the international filing date but later than the			
priority date claimed			
Date of the actual completion of the international search Date of mailing of the international search report			
19 Temper 2005 (19 01 2005)			
19 January 2005 (19.01.2005) Name and mailing address of the ISA/US Aythorized officer 19			
Mail Stop PCT, Attn: ISA/US			
Commissioner for Patents Commissioner for Patents			
P.O. Box 1450 Alexandria, Virginia 22313-1450 // Pelephone No. 703-308-1113			
Facsimile No. (703) 305-3230			

Form PCT/ISA/210 (second sheet) (January 2004)